

Title (en)

Plasma mediated method for producing catalysts

Title (de)

Plasmavermitteltes Verfahren zur Herstellung von Katalysatoren

Title (fr)

Procédé induit au plasma de production de catalyseurs

Publication

EP 2636446 A1 20130911 (EN)

Application

EP 12158206 A 20120306

Priority

EP 12158206 A 20120306

Abstract (en)

A method of producing an amorphous catalyst or catalyst precursor in the form of a powder having a surface area of from 0.1 m²/g to 50 m²/g which chemical composition comprises oxygen, carbon, hydrogen, optionally nitrogen, and at least a first and a second further elements, said method comprising: a. Generating an aerosol comprising a mixture of derivatives, said mixture of derivatives comprising at least one derivative per further element, each derivative being a derivative of at least one of said further elements, and at least one of said derivatives being an organic derivative, b. Diluting said aerosol by a gas, and c. Passing said diluted aerosol in a plasma generated between two electrodes, at least one of which being provided with a dielectric, thereby forming an amorphous catalyst or catalyst precursor on one of said electrodes.

IPC 8 full level

B01J 21/04 (2006.01); **B01J 21/06** (2006.01); **B01J 21/08** (2006.01); **B01J 23/02** (2006.01); **B01J 23/14** (2006.01); **B01J 23/22** (2006.01); **B01J 35/00** (2006.01); **B01J 35/10** (2006.01); **B01J 37/00** (2006.01); **B01J 37/08** (2006.01); **B01J 37/34** (2006.01); **B05D 7/24** (2006.01)

CPC (source: EP)

B01J 21/04 (2013.01); **B01J 21/063** (2013.01); **B01J 21/066** (2013.01); **B01J 21/08** (2013.01); **B01J 23/02** (2013.01); **B01J 23/14** (2013.01); **B01J 23/22** (2013.01); **B01J 35/23** (2024.01); **B01J 35/30** (2024.01); **B01J 35/612** (2024.01); **B01J 35/613** (2024.01); **B01J 37/0072** (2013.01); **B01J 37/086** (2013.01); **B01J 37/349** (2013.01); **C07C 5/277** (2013.01)

C-Set (source: EP)

C07C 5/277 + **C07C 9/12**

Citation (applicant)

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